AUTHOR INDEX

(D) Denotes Demonstration, (T) Title only, (C) Communication, (PC) Poster Communication

ABBOTT N. Joan *see* BUTT Arthur M., JONES Hazel C. & ABBOTT N. Joan Electrical resistance across the blood–brain barrier in anaesthetized rats: a developmental study. 47

AIDULIS Dorothy M. *see* DOWELL Fiona J., AIDULIS Dorothy M., SHARIFI A.M. & POLLOCK D. Increased sensitivity to noradrenaline and noradrenaline-induced phosphoinositide hydrolysis in the isolated tail artery from spontaneously hypertensive rats. (C) 76*P*

ALEXANDRE A. *see* DONI M.G., ALEXANDRE A., PADOIN E., BERTONCELLO S. & DEANA R. Effect of sodium nitroprusside and cyclic GMP on human platelet aggregation and ATP secretion induced by protein kinase C activators. (C) 86*P*

AL-OBAIDI M., WHITAKER E.M. & KARIM F. Carotid chemoreceptors and plasma atrial natriuretic peptide in anaesthetized dogs. (C) 80*P*

ANDERSON L.C. & BEVAN C.A. Early effects of streptozocin diabetes on noradrenaline-stimulated amylase release from rat parotid acinar cells *in vitro*. (C) 92*P*

ANDREWS B.J., BAXENDALE R.H., GRANAT M.H. & NICOL D.J. Flexion withdrawal reflexes in spinal cord-injured man. (C) 50*P*

ANDREWS B.J., GRANAT M.H. & KIRKWOOD C.A. Observation of the catch phenomenon in human quadriceps muscle. (PC) 105*P*

ANTONIOU A., SHAFI A.I. & ROWLERSON Anthea Soleus muscle fibre and spindle development in Swiss White and C3H Brown Mice. (C) 32*P*

ANTONIOU A. *see* SHAFI A.I., ANTONIOU A. & ROWLERSON Anthea Muscle spindles and type I (slow-twitch) fibres in the soleus muscle of C3H Brown and Swiss White Mice. (PC) 135*P*

ARBLASTER L.A., LAKIE M. & WALSH E.G. Human physiologial tremor: a bilateral study. (PC) 132*P*

ARDRON M.E. & HELME R.D. Conditioning with transcutaneous nerve stimulation reduces C fibre-mediated axon reflex flare in human skin. (C) 49*P*

ARMSTRONG D.J., SEDDON P.C. & WORSLEY M.D. Phenylbiguanide (PBG) does not decrease airway conductance in spontaneously breathing, pentobarbitone-anaesthetized rabbits. (C) 64*P*

ASGARI-KHOZANKALAEI A. & GLADDEN Margaret H. Simultaneous excitation and inhibition of tenuissimus static γ-motoneurones during cortical stimulation in the anaesthetized cat. (D) 9*P*

ASHTON N. *see* EVANS R.L., ASHTON N. & ELLIOTT A.C. Intracellular free $[Ca^{2+}]$ in rat pancreatic ducts is increased by acetylcholine but not by bombesin or substance P. (C) 90*P*

BABU Árvind *see* GULATI Jagdish & BABU Árvind Length-induced Ca^{2+} sensitivity of highly stretched cardiac TnC-loaded isolated skinned rabbit muscle fibres, with implications for Starling's law of the heart. (C) 22*P*

BAILEY S.E.R. *see* MILLS J.D., MCCROHAN C.R. & BAILEY S.E.R. Effect of the molluscicide, metaldehyde, on firing activity and ionic conductances in neurones of *Lymnaea stagnalis*. (PC) 123*P*

BAKER J.R. *see* BREMNER F.D. & BAKER J.R. The effect of muscle vibration on the synchronization of motor unit firing during isometric contractions in man. (C) 36*P*

BALLANTYNE J.P. *see* HANSEN S., WEIR A.I. & BALLANTYNE J.P. Improved method for estimation of motor unit numbers and analysis of motor unit potential parameters in extensor digitorum brevis muscle in man. (D) 6*P*

BALLARD H.J. The role of pH in the release of adenosine from skeletal muscle in anaesthetized dogs. (C) 78*P*

BANKS R.W. & STACEY M.J. A quantitative analysis of the sensory innervation of cat tenuissimus muscle spindles. (PC) 129*P*

BARNES W.J.P. & MARCHAND A.R. Mechanical and electrical correlates of habituation in a crayfixh leg reflex. (PC) 126*P*

BASCOM D.A. *see* PATERSON D.J., FRIEDLAND J.S., BASCOM D.A., CLEMENT I.D., CUNNINGHAM D.A., PAINTER R. & ROBBINS P.A. Changes in arterial K^+ and ventilation during exercise in normal subjects and subjects with McArdle's syndrome. 339

BAUER Christiane K., MEYERHOF Wolfgang & SCHWARZ Jürgen R. An inward-rectifying K^+ current in clonal rat pituitary cells and its modulation by thyrotrophin-releasing hormone. 169

BAUX G., FOSSIER P. & TAUC L. Histamine and FLRFamide regulate acetylcholine release at an identified synapse in *Aplysia* in opposite ways. 147

BAXENDALE R.H. *see* ROUSE M.E. & BAXENDALE R.H A technique to record the sounds emitted from triceps brachii in man during voluntary contractions. (D) 8*P*

BAXENDALE R.H., DAVEY N.J., ELLAWAY P.H. & FERRELL W.R. The influence of cutaneous receptors on the reflex pathways from knee joint afferents to γ-motoneurones in the decerebrated, low-spinal cat. (C) 34*P*

BAXENDALE R.H. *see* ANDREWS B.J., BAXENDALE R.H., GRANAT M.H. & NICOL D.J. Flexion withdrawal reflexes in spinal cord-injured man. (C) 50*P*

BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

BEELEN A. & SARGEANT A.J. Velocity-dependent effect of muscle fatigue generated by dynamic exercise in humans. (C) 56*P*

BERRIE C.P. & ELLIOTT A.C. Differential effects of a phorbol ester on acetylcholine-evoked changes in $[Ca^{2+}]_i$ in single acini isolated from rat lacrimal and rabbit mandibular gland. (C) 89*P*

BERTONCELLO S. *see* DONI M.G., ALEXANDRE A., PADOIN E., BERTONCELLO S. & DEANA R. Effect of sodium nitroprusside and cyclic GMP on human platelet aggregation and ATP secretion induced by protein kinase C activators. (C) 86*P*

BETHELL L.R., LEIPER J.B. & MAUGHAN R.J. Consumption of dilute glucose-electrolyte solutions improves exercise capacity in man. (C) 60*P*

BEVAN C.A. *see* ANDERSON L.C. & BEVAN C.A. Early effects of streptozocin diabetes on noradrenaline-stimulated amylase release from rat parotid acinar cells *in vitro*. (C) 92*P*

BIRRELL G.J., MCQUEEN D.S. & IGGO A. Effects of cicaprost and PGE_2 on the responses of rat ankle joint sensory receptors to bradykinin *in vitro*. (C) 29*P*

BLOMQVIST A., DANIELSSON I. & NORRSELL U. The somatosensory intercollicular nucleus of the cat's mesencephalon. 191

BLOOM S.R. *see* JONES C.T., EDWARDS A.V. & BLOOM S.R. The effect of changes in adrenal blood flow on adrenal cortical responses to adrenocorticotrophin in conscious calves. 377

BOVELL D.L., BURTON F.L. & HUTTER O.F. Mechanical properties of sarcolemma of murine and human skeletal muscle. (D) 4*P*

BOVELL D.L., HUTTER O.F. & MONTGOMERY I. Study of membrane vesiculation in murine skeletal muscle. (D) (TO) 12*P*

BOVELL D.L. *see* WILSON S.M., BOVELL D.L., ELDER H.Y., JENKINSON D. McEwan, COCKBURN F., COUTTS J. & MORRIS G. Cholinergic regulation of potassium ($^{86}Rb^+$) permeablity in sweat glands from patients with cystic fibrosis (CF). (PC) 102*P*

BOVELL D.L., BURTON F.L., HUTTER O.F. & TIAN L.J. Effects of decreased internal pH on inwardly rectifying K channels in guinea-pig ventricular cell membrane. (PC) 111*P*

BOYETT M.R. *see* MCCALL E., HARRISON S.M., BOYETT M.R. & ORCHARD C.H. Intracellular sodium activity (a^i_{Na}), intracellular pH (pH_i) and contractility in isolated rat ventricular myocytes during respiratory acidosis. (C) 17*P*

BOYETT M.R. *see* FRAMPTON J.E., ORCHARD C.H. & BOYETT M.R. Caffeine-induced calcium release in myocytes isolated from the ventricles of rat hearts changes during inotropic interventions. (C) 19*P*

BOYLE F.C. *see* GORDON J.F., DALY C.J., BOYLE F.C., KUSEL J.R., GILLESPIE J.S. & MCGRATH J.C. A simple fluorescence-based cell viability assay for use in rat blood vessels *in vitro*. (D) 10*P*

BOYLE F.C. *see* DALY C.J., GORDON J., BOYLE F.C., GILLESPIE J.S., MCGRATH J.C., MOSS V.A. & SPURWAY N.C. Fluorescent myography: the analysis of isolated vascular smooth muscle cells of the rat, labelled with bisbenzimide, during vasoconstriction. (D) 11*P*

BRAMICH Narelle J., EDWARDS F.R. & HIRST G.D.S. Sympathetic nerve stimulation and applied transmitters on the sinus venosus of the toad. 349

BREMNER F.D. & BAKER J.R. The effect of muscle vibration on the synchronization of motor unit firing during isometric contractions in man. (C) 36*P*

BRITTON Steven Loyal *see* KOCH Lauren Gerard, BRITTON Steven Loyal & METTING Patricia J. Adenosine is not essential for exercise hyperaemia in the hindlimb in conscious dogs. 63

BROOKES F.B.C. *see* WINTER E.M. & BROOKES F.B.C. Electromechanical response times and muscle elasticity. (PC) 106*P*

BROUNS F. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHREP N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

BROWN A.G. *see* SHORT A.D., BROWN A.G. & MAXWELL D.J. Afferent inhibition and facilitation of transmission through the spinocervical tract in the anaesthetized cat. 511

BROWN A.M. & MCCROHAN C.R. Extracellular Ca^{2+} suppresses a voltage-insensitive, cyclic AMP-stimulated inward Na^+ current in an identified neurone in the isolated CNS of *Lymnaea stagnalis*. (C) 65*P*

BROWN A.M. & PAMPLIN P. Carbamazepine inhibits epileptiform activity induced by pentylenetetrazol in an identified neurone of the snail *Lymnaea stagnalis*. (PC) 122*P*

BROWN C.D.A. *see* MCNICHOLAS C.M., TURNBERG L.A. & BROWN C.D.A. Sequential isolation of structurally intact villus tip and crypt units from rat duodenum. (C) 99*P*

BROWN C.H., GILMORE D.P., LEIGH A.J. & WILSON C.A. μ-, κ- and σ-opioid inhibition of the preovulatory luteinizing hormone surge in the rat. (C) 46*P*

BROWN H.F. *see* DENYER J.C. & BROWN H.F. Pacemaking in rabbit isolated sino-atrial node cells during Cs^+ block of the hyperpolarization-activated current i_f. 401

BROWN H.F. *see* DENYER J.C. & BROWN H.F. Calcium 'window' current in rabbit isolated sino-atrial node cells. (C) 21*P*

BROWN K. *see* WALSH E.G., BROWN K. & WRIGHT G.W. Resonant frequency of the human ankle in juvenile hemiplegia. (C) 31*P*

BROWNBILL P. *see* RAWLINGS J.M., BROWNBILL P., STEWARD M.C. & CASE R.M. Inhibitory effects of a phorbol ester on fluid secretion by the isolated, perfused rabbit mandibular salivary gland. (C) 88*P*

BURKE David *see* MACEFIELD Gary, GANDEVIA Simon C. & BURKE David Perceptual responses to microstimulation of single afferents innervating joints, muscles and skin of the human hand. 113

BURTON F.L. *see* BOVELL D.L., BURTON F.L. & HUTTER O.F. Mechanical properties of sarcolemma of murine and human skeletal muscle. (D) 4*P*

BURTON F.L. *see* BOVELL D.L., BURTON F.L., HUTTER O.F. & TIAN L.J. Effects of decreased internal pH on inwardly rectifying K channels in guinea-pig ventricular cell membrane. (PC) 111*P*

BURTON S. *see* GLEESON M., BURTON S. & CAVE R. Haematological response to intermittent maximal exercise in man. (C) 61*P*

BUTT Arthur M., JONES Hazel C. & ABBOTT N. Joan Electrical resistance across the blood–brain barrier in anaesthetized rats: a developmental study. 47

CAMPBELL I.T. & NELSON Vivienne The effect of respiratory resistance on end-tidal position in man. (C) 62*P*

CANAVAN J.P., HOLT J. & GOLDSPINK D.F. The effects of hypo- and hyperthyroidism on cardiac growth in neonatal rats. (C) 27*P*

CANAVAN J.P. *see* HOLT J., CANAVAN J.P. & GOLDSPINK D.F. The effects of thyroid status on lung growth in the perinatal rat. (PC) 114*P*

CAPIOD T. *see* NOEL J. & CAPIOD T. Activation of Ca^{2+}-dependent K^+ permeability by photolytic release of cAMP in guinea-pig isolated liver cells. (C) 94*P*

CARL A., MCHALE N.G., PUBLICOVER N.G. & SANDERS K.M. Participation of Ca^{2+}-activated K^+ channels in electrical activity of canine gastric smooth muscle. 205

CASE R.M. *see* LAU K.R. & CASE R.M. Arachidonic acid with ionomycin can evoke an intracellular acidosis in isolated rabbit salivary gland acini. (C) 87*P*

CASE R.M. *see* RAWLINGS J.M., BROWNBILL P., STEWARD M.C. & CASE R.M. Inhibitory effects of a phorbol ester on fluid secretion by the isolated, perfused rabbit mandibular salivary gland. (C) 88*P*

CAVE R. *see* GLEESON M., BURTON S. & CAVE R. Haematological response to intermittent maximal exercise in man. (C) 61*P*

CEVESE A. *see* VACCA G., DRINKHILL M.J., CEVESE A., PATEL P., SCHENA F. & MARY D.A.S.G. Urinary bladder distension reflexly decreases coronary blood flow in the anaesthetized dog. (C) 82*P*

CHAN K.M. *see* PROCTOR G.B., CHAN K.M., GARRETT J.R. & SMITH R.E. Characterization of two proteinases possibly involved in the processing of atrial natriuretic peptide in bovine atrium. (C) 79*P*

CHAPPELL Lucy C., LEACH Richard M. & TWORT Charles H.C. Differential vasorelaxant effects of BRL38227 in isolated large and small pulmonary vessels of the rat. (C) 74*P*

CHRACHRI A. Second thoracic root stimulation affects both the swimmeret and the walking systems of the crayfish *Pacifastacus leniusculus in vitro*. (C) 70*P*

CHRACHRI A., CONWAY B.A., NEIL D.M. & ROSENBERG J.R. Correlation analysis of coupling between crayfish motoneurones. (PC) 125*P*

CLARK C.J. *see* COCHRANE L.M., CLARK C.J. & FRAME G. The effects of mode of exercise on breathing patterns, chest wall motion and breathlessness during progressive incremental exercise in humans. (PC) 103*P*

CLARKE R.W. *see* HARRIS J., FORD T.W. & CLARKE R.W. The effects of intrathecal application of α-adrenoreceptor antagonists on the sural-gastrocnemius reflex in the decerebrate rabbit. (PC) 130*P*

CLEMENT I.D. *see* PATERSON D.J., FRIEDLAND J.S., BASCOM D.A., CLEMENT I.D., CUNNINGHAM D.A., PAINTER R. & ROBBINS P.A. Changes in arterial K^+ and ventilation during exercise in normal subjects and subjects with McArdle's syndrome. 339

CLEMENT Odile *see* PUCEAT Michel, CLEMENT Odile & VASSORT Guy Extracellular MgATP stimulates chloride–bicarbonate exchange in single rat cardiac ventricular cells. (C) 25*P*

CLEMENTS John D. *see* FORSYTHE Ian D. & CLEMENTS John D. Presynaptic glutamate receptors depress excitatory monosynaptic transmission between mouse hippocampal neurones. 1

COCHRANE L.M., CLARK C.J. & FRAME G. The effects of mode of exercise on breathing patterns, chest wall motion and breathlessness during progressive incremental exercise in humans. (PC) 103*P*

COCKBURN F. *see* WILSON S.M., BOVELL D.L., ELDER H.Y., JENKINSON D. McEwan, COCKBURN F., COUTTS J. & MORRIS G. Cholinergic regulation of potassium ($^{86}Rb^+$) permeablity in sweat glands from patients with cystic fibrosis (CF). (PC) 102*P*

CODY F.W.J., LOVGREEN Brenda, SCHADY W. & RICHARDSON Helen C. Proprioceptive control of human voluntary wrist movements studied in healthy subjects and in patients with cerebellar dysfunction. (C) 37*P*

COLEBATCH J. *see* FERBERT A., PRIORI A., ROTHWELL J.C., COLEBATCH J., DAY B.L. & MARSDEN C.D. Trans-callosal effects on motor cortical excitability in man. (C) 38*P*

CONNORS S.P. & TERRAR D.A. The effect of forskolin on activation and de-activation of time-dependent potassium current in ventricular cells isolated from guinea-pig heart. (PC) 109*P*

CONWAY B.A., LAU J.W.N., MURRAY-SMITH D.J. & ROSENBERG J.R. Techniques for the analysis of neuronal interactions. (D) 5*P*

CONWAY B.A. *see* CHRACHRI A., CONWAY B.A., NEIL D.M. & ROSENBERG J.R. Correlation analysis of coupling between crayfish motoneurones. (PC) 125*P*

COTSELL B. *see* LYNN B. & COTSELL B. The rate of spread of axon reflex flare in human skin following noxious heating. (PC) 101*P*

COUTTS J. *see* WILSON S.M., BOVELL D.L., ELDER H.Y., JENKINSON D. McEwan, COCKBURN F., COUTTS J. & MORRIS G. Cholinergic regulation of potassium ($^{86}Rb^+$) permeablity in sweat glands from patients with cystic fibrosis (CF). (PC) 102*P*

CRASKE B. *see* DICKIE J., FERRELL W.R. & CRASKE B. Microcomputer-based apparatus for assessing position sense at the human proximal interphalangeal joint. (D) 3*P*

CRICHTON C.A., SMITH G.L., MCGRATH J.C. & MILLER D.J. The effects of GTP and noradrenaline on Ca-activated force in isolated rat anococcygeus muscle and longitudinal muscle from guinea-pig portal vein after α-toxin treatment. (PC) 112*P*

CULL-CANDY S.G. *see* WYLLIE D.J.A. & CULL-CANDY S.G. Glutamate receptor channels in rat cultured type-2 cerebellar astrocytes resemble neuronal type glutamate channels. (C) 45*P*

CUNNINGHAM D.A. *see* PATERSON D.J., FRIEDLAND J.S., BASCOM D.A., CLEMENT I.D., CUNNINGHAM D.A., PAINTER R. & ROBBINS P.A. Changes in arterial K^+ and ventilation during exercise in normal subjects and subjects with McArdle's syndrome. 339

DALY C.J. *see* GORDON J.F., DALY C.J., BOYLE F.C., KUSEL J.R., GILLESPIE J.S. & MCGRATH J.C. A simple fluorescence-based cell viability assay for use in rat blood vessels *in vitro*. (D) 10*P*

DALY C.J., GORDON J., BOYLE F.C., GILLESPIE J.S., MCGRATH J.C., MOSS V.A. & SPURWAY N.C. Fluorescent myography: the analysis of isolated vascular smooth muscle cells of the rat, labelled with bisbenzimide, during vasoconstriction. (D) 11*P*

DANIELS Marcel C.G., TER KEURS Henk E.D.J. & LAMONT Christine Propagated contractions in selectively chemically skinned isolated rat cardiac muscle. (PC) 115*P*

DANIELSSON I. *see* BLOMQVIST A., DANIELSSON I. & NORRSELL U. The somatosensory intercollicular nucleus of the cat's mesencephalon. 191

DAUNCEY M.J. *see* TIVEY D.R. & DAUNCEY M.J. Reduced α-glucosidase expression by enterocytes from small-for-gestational age piglets. (C) 98*P*

DAVEY N.J. *see* BAXENDALE R.H., DAVEY N.J., ELLAWAY P.H. & FERRELL W.R. The influence of cutaneous receptors on the reflex pathways from knee joint afferents to γ-motoneurones in the decerebrated, low-spinal cat. (C) 34*P*

DAVEY N.J., ELLAWAY P.H., HALLIDAY D.M. & ROSENBERG J.R. Association between the discharges of γ-motoneurones during cutaneous stimulation revealed by coherence analysis in the cat. (C) 35*P*

DAVID J.A. & PITMAN R.M. Functional muscarinic receptors on an identified neurone in the isolated metathoracic ganglion of the cockroach *Periplaneta americana*. (C) 66*P*

DAVIDSON J. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

DAY B.L. *see* FERBERT A., PRIORI A., ROTHWELL J.C., COLEBATCH J., DAY B.L. & MARSDEN C.D. Trans-callosal effects on motor cortical excitability in man. (C) 38*P*

DEAN Jacqueline A. *see* PAUL D.H. & DEAN Jacqueline A. Differential projections from the brain to rostral and caudal levels of the spinal cord in the trout (*Salmo trutta*). (PC) 128*P*

DEAN John W. & LAB Max J. Regional changes in ventricular excitability during load manipulation of the *in situ* pig heart. 387

DEANA R. *see* DONI M.G., ALEXANDRE A., PADOIN E., BERTONCELLO S. & DEANA R. Effect of sodium nitroprusside and cyclic GMP on human platelet aggregation and ATP secretion induced by protein kinase C activators. (C) 86*P*

DE HEMPTINNE A. *see* VANHEEL B. & DE HEMPTINNE A. Effects of acidosis on extracellular K^+ accumulation and surface pH in isolated ischaemic guinea-pig papillary muscle. (PC) 110*P*

DENYER J.C. & BROWN H.F. Pacemaking in rabbit isolated sino-atrial node cells during Cs^+ block of the hyperpolarization-activated current i_f. 401

DENYER J.C. & BROWN H.F. Calcium 'window' current in rabbit isolated sino-atrial node cells. (C) 21*P*

DETTMAR P.W., GOSLING M., IBRAHIM J. & YOUNG A. A comparison of the effects of μ-, δ- and κ-opioid agonists on ileal fluid transport in the anaesthetized rat. (C) 95*P*

DICKIE J., FERRELL W.R. & CRASKE B. Microcomputer-based apparatus for assessing position sense at the human proximal interphalangeal joint. (D) 3*P*

DOLPHIN Annette C. Effect of cyclic AMP-dependent protein phosphorylation on calcium channel currents in cultured rat dorsal root ganglion neurones: interaction with Ca^{2+} channel ligands. (C) 13*P*

DONI M.G., ALEXANDRE A., PADOIN E., BERTONCELLO S. & DEANA R. Effect of sodium nitroprusside and cyclic GMP on human platelet aggregation and ATP secretion induced by protein kinase C activators. (C) 86*P*

DONNELLY David F. *see* HADDAD Gabriel G. & DONNELLY David F. O_2 deprivation induces a major depolarization in brain stem neurons in the adult but not in the neonatal rat. 411

DONOSO P., MILL J.G., O'NEILL S.C. & EISNER D.A. Effect of metabolic blockade on intracellular sodium in isolated rat ventricular myocytes. (PC) 116*P*

DOVER P.J. & MCCAIG C.D. Forskolin induces processes with nerve-like galvanotropic properties in cultured, embryonic frog myoblasts. (C) 55*P*

DOWELL Fiona J., AIDULIS Dorothy M., SHARIFI A.M. & POLLOCK D. Increased sensitivity to noradrenaline and noradrenaline-induced phosphoinositide hydrolysis in the isolated tail artery from spontaneously hypertensive rats. (C) 76*P*

DRINKHILL M.J. *see* VACCA G., DRINKHILL M.J., CEVESE A., PATEL P., SCHENA F. & MARY D.A.S.G. Urinary bladder distension reflexly decreases coronary blood flow in the anaesthetized dog. (C) 82*P*

DUNNE M.J., TUCKER L.M. & PETERSEN O.H. Activators of protein kinase C have novel effects on ATP-sensitive potassium channels in insulin-secreting cells. (C) 93*P*

DUNNETT M. *see* MANNION A.F., JAKEMAN P.M., DUNNETT M., HARRIS R. & WILLAN P.L.T. The contribution of carnosine to skeletal muscle buffering in man. (C) 58*P*

DURBABA R. *see* TAYLOR A., DURBABA R. & RODGERS J. The relative strength of monosynaptic projections of jaw muscle spindle afferents of different types in the anaesthetized cat. (C) 30*P*

EDWARDS A.V. *see* JONES C.T., EDWARDS A.V. & BLOOM S.R. The effect of changes in adrenal blood flow on adrenal cortical responses to adrenocorticotrophin in conscious calves. 377

EDWARDS F.R. *see* BRAMICH Narelle J., EDWARDS F.R. & HIRST G.D.S. Sympathetic nerve stimulation and applied transmitters on the sinus venosus of the toad. 349

EISNER D.A. *see* O'NEILL S.C. & EISNER D.A. The effects of refilling of the sarcoplasmic reticulum with Ca on $[Ca^{2+}]_i$ in isolated rat ventricular myocytes. (C) 20*P*

EISNER D.A. *see* DONOSO P., MILL J.G., O'NEILL S.C. & EISNER D.A. Effect of metabolic blockade on intracellular sodium in isolated rat ventricular myocytes. (PC) 116*P*

ELDER H.Y. *see* WILSON S.M., BOVELL D.L., ELDER H.Y., JENKINSON D. McEwan, COCKBURN F., COUTTS J. & MORRIS G. Cholinergic regulation of potassium ($^{86}Rb^+$) permeablity in sweat glands from patients with cystic fibrosis (CF). (PC) 102*P*

ELEK J., PROCHAZKA A., HULLIGER M. & VINCENT S. In-series compliance of gastrocnemius muscle in cat step cycle: do spindles signal origin-to-insertion length? 237

ELLAWAY P.H. *see* BAXENDALE R.H., DAVEY N.J., ELLAWAY P.H. & FERRELL W.R. The influence of cutaneous receptors on the reflex pathways from knee joint afferents to γ-motoneurones in the decerebrated, low-spinal cat. (C) 34*P*

ELLAWAY P.H. *see* DAVEY N.J., ELLAWAY P.H., HALLIDAY D.M. & ROSENBERG J.R. Association between the discharges of γ-motoneurones during cutaneous stimulation revealed by coherence analysis in the cat. (C) 35*P*

ELLIOTT A.C. *see* BERRIE C.P. & ELLIOTT A.C. Differential effects of a phorbol ester on acetylcholine-evoked changes in $[Ca^{2+}]_i$ in single acini isolated from rat lacrimal and rabbit mandibular gland. (C) 89*P*

ELLIOTT A.C. *see* EVANS R.L., ASHTON N. & ELLIOTT A.C. Intracellular free $[Ca^{2+}]$ in rat pancreatic ducts is increased by acetylcholine but not by bombesin or substance P. (C) 90*P*

ELLIOTT C. & REED J.W. The effects of inspiratory resistances on exercise capacity in man. (C) 63*P*

ELLIOTT J.R. *see* WINPENNY J.P., ELLIOTT J.R. & HARPER A.A. Effects of some *n*-alkanols on the transient potassium current (I_A) in isolated *Helix* neurones. (C) 44*P*

ENGERT D. *see* VENNING S., ENGERT D., EVANS H., FARMER S.F. & STEPHENS J.A. Time and frequency-domain analysis of motor unit firing in first dorsal interosseous muscle and biceps studied in man. (C) 41*P*

ERRCHIDI S., HILAIRE G. & MONTEAU R. Permanent release of noradrenaline modulates respiratory frequency in the newborn rat: an *in vitro* study. 497

EVANS C.A., GORDON J.F., HUTTER O.F. & KUSEL J.R. Lateral mobility of membrane glycoprotein in chick myotubes and in skeletal muscle fibres isolated from normal and MDX mice. (C) 54*P*

EVANS H. *see* VENNING S., ENGERT D., EVANS H., FARMER S.F. & STEPHENS J.A. Time and frequency-domain analysis of motor unit firing in first dorsal interosseous muscle and biceps studied in man. (C) 41*P*

EVANS M.G. *see* FUCHS P.A. & EVANS M.G. Potassium currents in hair cells isolated from the cochlea of the chick. 529

EVANS M.G. *see* FUCHS P.A., EVANS M.G. & MURROW B.W. Calcium currents in hair cells isolated from the cochlea of the chick. 553

EVANS R.L., ASHTON N. & ELLIOTT A.C. Intracellular free $[Ca^{2+}]$ in rat pancreatic ducts is increased by acetylcholine but not by bombesin or substance P. (C) 90*P*

FARMER S.F., HARRISON L.M., INGRAM D.A. & STEPHENS J.A. Evidence for plasticity of central motor pathways in children with hemiplegic cerebral palsy. (C) 40*P*

FARMER S.F. *see* VENNING S., ENGERT D., EVANS H., FARMER S.F. & STEPHENS J.A. Time and frequency-domain analysis of motor unit firing in first dorsal interosseous muscle and biceps studied in man. (C) 41*P*

FERBERT A., PRIORI A., ROTHWELL J.C., COLEBATCH J., DAY B.L. & MARSDEN C.D. Trans-callosal effects on motor cortical excitability in man. (C) 38*P*

FERRELL W.R. *see* DICKIE J., FERRELL W.R. & CRASKE B. Microcomputer-based apparatus for assessing position sense at the human proximal interphalangeal joint. (D) 3*P*

FERRELL W.R. *see* BAXENDALE R.H., DAVEY N.J., ELLAWAY P.H. & FERRELL W.R. The influence of cutaneous receptors on the reflex pathways from knee joint afferents to γ-motoneurones in the decerebrated, low-spinal cat. (C) 34*P*

FERRELL W.R. *see* GRICE C.A., LAM F.Y. & FERRELL W.R. Response of knee joint blood vessels to neurokinin receptor agonists in anaesthetized rats. (C) 75*P*

FORD T.W. *see* HARRIS J., FORD T.W. & CLARKE R.W. The effects of intrathecal application of α-adrenoreceptor antagonists on the sural-gastrocnemius reflex in the decerebrate rabbit. (PC) 130*P*

FORSYTHE Ian D. & CLEMENTS John D. Presynaptic glutamate receptors depress excitatory monosynaptic transmission between mouse hippocampal neurones. 1

FOSSIER P. *see* BAUX G., FOSSIER P. & TAUC L. Histamine and FLRFamide regulate acetylcholine release at an identified synapse in *Aplysia* in opposite ways. 147

FOWLER W.S., NEIL D.M. & TOBASNICK G. The abdominal superficial flexor muscle: species differences between a lobster and a crayfish in the distribution of fibre phenotypes. (C) 69*P*

FRAME G. *see* COCHRANE L.M., CLARK C.J. & FRAME G. The effects of mode of exercise on breathing patterns, chest wall motion and breathlessness during progressive incremental exercise in humans. (PC) 103*P*

FRAMPTON J.E., ORCHARD C.H. & BOYETT M.R. Caffeine-induced calcium release in myocytes isolated from the ventricles of rat hearts changes during inotropic interventions. (C) 19*P*

FRASER K. & HEITLER W.J. Photo-ablation of identified crayfish neurones reveals parallel processing pathways between giant fibres and fast flexors in the isolated CNS. (C) 67*P*

FRIEDLAND J.S. *see* PATERSON D.J., FRIEDLAND J.S., BASCOM D.A., CLEMENT I.D., CUNNINGHAM D.A., PAINTER R. & ROBBINS P.A. Changes in arterial K^+ and ventilation during exercise in normal subjects and subjects with McArdle's syndrome. 339

FRY C.H. *see* HALL S.K., FRY C.H. & MACLEOD K.T. The effect of extracellular Mg on the contraction of isolated ventricular myocardium from several mammalian species. (C) 23*P*

FRY C.H. *see* HALL S.K. & FRY C.H. The effects of extracellular Mg on excitation of isolated ventricular myocardium from rat, rabbit and ferret. (C) 24*P*

FUCHS P.A. & EVANS M.G. Potassium currents in hair cells isolated from the cochlea of the chick. 529

FUCHS P.A., EVANS M.G. & MURROW B.W. Calcium currents in hair cells isolated from the cochlea of the chick. 553

FUGLSANG Annette Arteriolar vasodilatation in autoperfused frog skeletal muscle *in vivo*: interventions with second messenger systems. (C) 77*P*

FYFFE R.E.W. *see* SCHNEIDER S.P. & FYFFE R.E.W. Bicuculline and strychnine depress recurrent inhibitory postsynaptic potentials in motoneurones in the isolated spinal cord of the rat. (C) 43*P*

GANDEVIA Simon C. *see* MACEFIELD Gary, GANDEVIA Simon C. & BURKE David Perceptual responses to microstimulation of single afferents innervating joints, muscles and skin of the human hand. 113

GARLAND S. Jayne & MCCOMAS A.J. Reflex inhibition of human soleus muscle during fatigue. 17

GARRETT J.R. *see* PROCTOR G.B., CHAN K.M., GARRETT J.R. & SMITH R.E. Characterization of two proteinases possibly involved in the processing of atrial natriuretic peptide in bovine atrium. (C) 79*P*

GEMMELL H.G. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

GILLESPIE J.S. *see* MCGARRY S.J., GILLESPIE J.S. & POLLOCK D. A method for investigating the effects of hyperbaric conditions on electrical field stimulation-induced overflow of ^3H in the rat isolated anococcygeus muscle, pre-incubated in [^3H]noradrenaline. (D) 7*P*

GILLESPIE J.S. *see* GORDON J.F., DALY C.J., BOYLE F.C., KUSEL J.R., GILLESPIE J.S. & MCGRATH J.C. A simple fluorescence-based cell viability assay for use in rat blood vessels *in vitro*. (D) 10*P*

GILLESPIE J.S. *see* DALY C.J., GORDON J., BOYLE F.C., GILLESPIE J.S., MCGRATH J.C., MOSS V.A. & SPURWAY N.C. Fluorescent myography: the analysis of isolated vascular smooth muscle cells of the rat, labelled with bisbenzimide, during vasoconstriction. (D) 11*P*

GILMORE D.P. *see* BROWN C.H., GILMORE D.P., LEIGH A.J. & WILSON C.A. μ-, κ- and σ-opioid inhibition of the preovulatory luteinizing hormone surge in the rat. (C) 46*P*

GLADDEN Margaret H. *see* ASGARI-KHOZANKALAEI A. & GLADDEN Margaret H. Simultaneous excitation and inhibition of tenuissimus static γ-motoneurones during cortical stimulation in the anaesthetized cat. (D) 9*P*

GLEESON M., BURTON S. & CAVE R. Haematological response to intermittent maximal exercise in man. (C) 61*P*

GLITSCH H.G., PUSCH H. & TAPPE A. A new procedure to estimate the apparent K_D value for the interaction between cardiac glycosides and the Na–K pump of isolated sheep cardiac Purkinje fibres. (PC) 119*P*

GOLDSMITH R., HAMPTON I.F.G., LAYMAN D.B. & LIGHT I.M. Changes in cardiorespiratory fitness in men on the International Biomedical Expedition to the Antarctic (IBEA). (PC) 104*P*

GOLDSPINK D.F. *see* CANAVAN J.P., HOLT J. & GOLDSPINK D.F. The effects of hypo- and hyperthyroidism on cardiac growth in neonatal rats. (C) 27*P*

GOLDSPINK D.F. *see* HOLT J., CANAVAN J.P. & GOLDSPINK D.F. The effects of thyroid status on lung growth in the perinatal rat. (PC) 114*P*

GORDON J. *see* DALY C.J., GORDON J., BOYLE F.C., GILLESPIE J.S., MCGRATH J.C., MOSS V.A. & SPURWAY N.C. Fluorescent myography: the analysis of isolated vascular smooth muscle cells of the rat, labelled with bisbenzimide, during vasoconstriction. (D) 11*P*

GORDON J.F., DALY C.J., BOYLE F.C., KUSEL J.R., GILLESPIE J.S. & MCGRATH J.C. A simple fluorescence-based cell viability assay for use in rat blood vessels *in vitro*. (D) 10*P*

GORDON J.F. *see* EVANS C.A., GORDON J.F., HUTTER O.F. & KUSEL J.R. Lateral mobility of membrane glycoprotein in chick myotubes and in skeletal muscle fibres isolated from normal and MDX mice. (C) 54*P*

GOSLING M. *see* DETTMAR P.W., GOSLING M., IBRAHIM J. & YOUNG A. A comparison of the effects of μ-, δ- and κ-opioid agonists on ileal fluid transport in the anaesthetized rat. (C) 95*P*

GRANAT M.H. *see* ANDREWS B.J., BAXENDALE R.H., GRANAT M.H. & NICOL D.J. Flexion withdrawal reflexes in spinal cord-injured man. (C) 50*P*

GRANAT M.H. *see* ANDREWS B.J., GRANAT M.H. & KIRKWOOD C.A. Observation of the catch phenomenon in human quadriceps muscle. (PC) 105*P*

GRICE C.A., LAM F.Y. & FERRELL W.R. Response of knee joint blood vessels to neurokinin receptor agonists in anaesthetized rats. (C) 75*P*

GRIEVE K.L. & SILLITO A.M. The role of feedback from layer VI to IV in the generation of length tuning in the visual cortex of the anaesthetized cat. (C) 48*P*

GRIFFITHS P.J. A neuropeptide-induced contraction of barnacle (*Balanus nubilus*) single muscle fibres. (PC) 120*P*

GROSS Robert A., UHLER Michael D. & MACDONALD Robert L. The cyclic AMP-dependent protein kinase catalytic subunit selectively enhances calcium currents in rat nodose neurones. 483

GULATI Jagdish & BABU Árvind Length-induced Ca^{2+} sensitivity of highly stretched cardiac TnC-loaded isolated skinned rabbit muscle fibres, with implications for Starling's law of the heart. (C) 22*P*

HADDAD Gabriel G. & DONNELLY David F. O_2 deprivation induces a major depolarization in brain stem neurons in the adult but not in the neonatal rat. 411

HALL S.K., FRY C.H. & MACLEOD K.T. The effect of extracellular Mg on the contraction of isolated ventricular myocardium from several mammalian species. (C) 23*P*

HALL S.K. & FRY C.H. The effects of extracellular Mg on excitation of isolated ventricular myocardium from rat, rabbit and ferret. (C) 24*P*

HALL W.J. *see* O'CONNELL D.P. & HALL W.J. What mediates the contalateral renal response in the anaesthetized dog to unilateral renal artery infusion of prostaglandin E_2? (C) 83*P*

HALLIDAY D.M. *see* DAVEY N.J., ELLAWAY P.H., HALLIDAY D.M. & ROSENBERG J.R. Association between the discharges of γ-motoneurones during cutaneous stimulation revealed by coherence analysis in the cat. (C) 35*P*

HAMPTON I.F.G. *see* GOLDSMITH R., HAMPTON I.F.G., LAYMAN D.B. & LIGHT I.M. Changes in cardiorespiratory fitness in men on the International Biomedical Expedition to the Antarctic (IBEA). (PC) 104*P*

HANSEN S., WEIR A.I. & BALLANTYNE J.P. Improved method for estimation of motor unit numbers and analysis of motor unit potential parameters in extensor digitorum brevis muscle in man. (D) 6*P*

HANSEN S. *see* WEIR A.I., KIOY P., HANSEN S. & JAMAL G.A. Muscle fibre conduction velocity in the post-viral fatigue syndrome in man. (C) 51*P*

HANSON Mark A. *see* NOBLE Ray, WILLIAMS Bridget A., HANSON Mark A. & SMITH Julie A. Transient, intense carotid chemoreceptor stimulation does not affect discharge of rostral pontine neurones found to be excited during hypoxia in anaesthetized newborn lambs. (C) 81*P*

HARDING S.E. *see* MACLEOD K.T. & HARDING S.E. Effects of phorbol ester on intracellular pH, $[Ca^{2+}]$ and contractile responses of isolated rat cardiac myocytes. (C) 16*P*

HARPER A.A. *see* WINPENNY J.P., ELLIOTT J.R. & HARPER A.A. Effects of some *n*-alkanols on the transient potassium current (I_A) in isolated *Helix* neurones. (C) 44*P*

HARRIDGE S.D.R. *see* WHITE M.J. & HARRIDGE S.D.R. At high angular velocities voluntary activation limits maximal isokinetic torque generation in elderly and young human triceps surae. (C) 52*P*

HARRIS J., FORD T.W. & CLARKE R.W. The effects of intrathecal application of α-adrenoreceptor antagonists on the sural-gastrocnemius reflex in the decerebrate rabbit. (PC) 130*P*

HARRIS R. *see* MANNION A.F., JAKEMAN P.M., DUNNETT M., HARRIS R. & WILLAN P.L.T. The contribution of carnosine to skeletal muscle buffering in man. (C) 58*P*

HARRISON L.M. *see* FARMER S.F., HARRISON L.M., INGRAM D.A. & STEPHENS J.A. Evidence for plasticity of central motor pathways in children with hemiplegic cerebral palsy. (C) 40*P*

HARRISON S.M. *see* MCCALL E., HARRISON S.M., BOYETT M.R. & ORCHARD C.H. Intracellular sodium activity (a^{i}_{Na}), intracellular pH (pH_i) and contractility in isolated rat ventricular myocytes during respiratory acidosis. (C) 17P

HAYNES L.W. & YAU K.-W. Single-channel measurement from the cyclic GMP-activated conductance of catfish retinal cones. 451

HECKER M. *see* MUSTAFA M., MESTER P.A., THIEMERMANN C., HECKER M. & VANE J.R. N^{ω}-nitro-L-arginine (NO_2ARg) and NO_2Arg-L-phenylalanine inhibit endothelium-dependent vasodilatations *in vitro* in rabbits and *in vivo* in the anaesthetized rat. (C) 72P

HECKER M. *see* MITCHELL J.A., HECKER M., SESSA W.C., SWIERKOSZ T.A. & VANE J.R. L-Glutamine inhibits the generation of L-arginine and the release of endothelium-derived relaxing factor (EDRF) from bovine aortic cultured endothelial cells. (C) 73P

HEITLER W.J. *see* FRASER K. & HEITLER W.J. Photo-ablation of identified crayfish neurones reveals parallel processing pathways between giant fibres and fast flexors in the isolated CNS. (C) 67P

HELME R.D. *see* ARDRON M.E. & HELME R.D. Conditioning with transcutaneous nerve stimulation reduces C fibre-mediated axon reflex flare in human skin. (C) 49P

HILAIRE G. *see* ERRCHIDI S., HILAIRE G. & MONTEAU R. Permanent release of noradrenaline modulates respiratory frequency in the newborn rat: an *in vitro* study. 497

HIRST G.D.S. *see* BRAMICH Narelle J., EDWARDS F.R. & HIRST G.D.S. Sympathetic nerve stimulation and applied transmitters on the sinus venosus of the toad. 349

HOLT J. *see* CANAVAN J.P., HOLT J. & GOLDSPINK D.F. The effects of hypo- and hyperthyroidism on cardiac growth in neonatal rats. (C) 27P

HOLT J., CANAVAN J.P. & GOLDSPINK D.F. The effects of thyroid status on lung growth in the perinatal rat. (PC) 114P

HORE J., MCCLOSKEY D.I. & TAYLOR Janet L. Task-dependent changes in gain of the reflex response to imperceptible perturbations of joint positon in man. 309

HORIUTI K. *see* SOMLYO A.V., HORIUTI K., KITAZAWA T., TRENTHAM D.R. & SOMLYO A.P. Kinetics of $InsP_3$-induced Ca^{2+} release in smooth muscle isolated from guinea-pig portal vein. (C) 14P

HULLIGER M. *see* ELEK J., PROCHAZKA A., HULLIGER M. & VINCENT S. In-series compliance of gastrocnemius muscle in cat step cycle: do spindles signal origin-to-insertion length? 237

HUTTER O.F. *see* BOVELL D.L., BURTON F.L. & HUTTER O.F. Mechanical properties of sarcolemma of murine and human skeletal muscle. (D) 4P

HUTTER O.F. *see* BOVELL D.L., HUTTER O.F. & MONTGOMERY I. Study of membrane vesiculation in murine skeletal muscle. (D) (TO) 12P

HUTTER O.F. *see* EVANS C.A., GORDON J.F., HUTTER O.F. & KUSEL J.R. Lateral mobility of membrane glycoprotein in chick myotubes and in skeletal muscle fibres isolated from normal and MDX mice. (C) 54P

HUTTER O.F. *see* BOVELL D.L., BURTON F.L., HUTTER O.F. & TIAN L.J. Effects of decreased internal pH on inwardly rectifying K channels in guinea-pig ventricular cell membrane. (PC) 111P

IBRAHIM J. *see* DETTMAR P.W., GOSLING M., IBRAHIM J. & YOUNG A. A comparison of the effects of μ-, δ- and κ-opioid agonists on ileal fluid transport in the anaesthetized rat. (C) 95P

IGGO A. *see* BIRRELL G.J., MCQUEEN D.S. & IGGO A. Effects of cicaprost and PGE_2 on the responses of rat ankle joint sensory receptors to bradykinin *in vitro*. (C) 29P

ILES J.F. Use of magnetic brain stimulation in the study of corticospinal action on spinal motor mechanisms in man. (C) 39P

INGRAM D.A. *see* FARMER S.F., HARRISON L.M., INGRAM D.A. & STEPHENS J.A. Evidence for plasticity of central motor pathways in children with hemiplegic cerebral palsy. (C) 40P

ISENBERG Gerrit *see* WENDT-GALLITELLI Maria Fiora & ISENBERG Gerrit Time course of myofibrillar calcium during the cardiac cycle. X-Ray microprobe analysis of voltage-clamped guinea-pig ventricular myocytes. (C) 15P

JAKEMAN P.M. *see* MANNION A.F., JAKEMAN P.M., DUNNETT M., HARRIS R. & WILLAN P.L.T. The contribution of carnosine to skeletal muscle buffering in man. (C) 58P

JAKEMAN P.M. *see* MANNION A.F., JAKEMAN P.M. & WILLAN P.L.T. The measurement of skeletal muscle buffer value in man. (PC) 108P

JAMAL G.A. *see* WEIR A.I., KIOY P., HANSEN S. & JAMAL G.A. Muscle fibre conduction velocity in the post-viral fatigue syndrome in man. (C) 51P

JAMES C. & JONES D.A. Changes in the isometric and dynamic force of fatigued human quadriceps muscle. (C) 59P

JENKINSON D. McEwan *see* WILSON S.M., BOVELL D.L., ELDER H.Y., JENKINSON D. McEwan, COCKBURN F., COUTTS J. & MORRIS G. Cholinergic regulation of potassium ($^{86}Rb^{+}$) permeablity in sweat glands from patients with cystic fibrosis (CF). (PC) 102*P*

JENNETT Sheila *see* STARK A.D. & JENNETT Sheila Hypoxia, hypocapnia and muscle fatigue during voluntary contractions in man. (PC) 100*P*

JONES C.T., EDWARDS A.V. & BLOOM S.R. The effect of changes in adrenal blood flow on adrenal cortical responses to adrenocorticotrophin in conscious calves. 377

JONES D.A. *see* JAMES C. & JONES D.A. Changes in the isometric and dynamic force of fatigued human quadriceps muscle. (C) 59*P*

JONES Hazel C. *see* BUTT Arthur M., JONES Hazel C. & ABBOTT N. Joan Electrical resistance across the blood–brain barrier in anaesthetized rats: a developmental study. 47

JONES R.S.G. Synaptic transmission between layers V–VI and layer II of the rat medial entorhinal cortex *in vitro*. (C) 47*P*

JULU P.O.O., OKWANGA T.N. & KUNZEKWEGUTA W.S. Increased knee-jerk reflex latency (KRL) indicates a high risk of diabetic complications in man. (C) 53*P*

KARIM F. *see* AL-OBAIDI M., WHITAKER E.M. & KARIM F. Carotid chemoreceptors and plasma atrial natriuretic peptide in anaesthetized dogs. (C) 80*P*

KIOY P. *see* WEIR A.I., KIOY P., HANSEN S. & JAMAL G.A. Muscle fibre conduction velocity in the post-viral fatigue syndrome in man. (C) 51*P*

KIRKWOOD C.A. *see* ANDREWS B.J., GRANAT M.H. & KIRKWOOD C.A. Observation of the catch phenomenon in human quadriceps muscle. (PC) 105*P*

KIRKWOOD P.A. *see* SCHMID K., KIRKWOOD P.A. & SEARS T.A. Variation in the form and location of focal synaptic potentials generated in the anaesthetized cat by individual thoracic respiratory interneurones with differing firing patterns. (C) 42*P*

KITAZAWA T. *see* SOMLYO A.V., HORIUTI K., KITAZAWA T., TRENTHAM D.R. & SOMLYO A.P. Kinetics of $InsP_3$-induced Ca^{2+} release in smooth muscle isolated from guinea-pig portal vein. (C) 14*P*

KOCH Lauren Gerard, BRITTON Steven Loyal & METTING Patricia J. Adenosine is not essential for exercise hyperaemia in the hindlimb in conscious dogs. 63

KUNZEKWEGUTA W.S. *see* JULU P.O.O., OKWANGA T.N. & KUNZEKWEGUTA W.S. Increased knee-jerk reflex latency (KRL) indicates a high risk of diabetic complications in man. (C) 53*P*

KUSEL J.R. *see* GORDON J.F., DALY C.J., BOYLE F.C., KUSEL J.R., GILLESPIE J.S. & MCGRATH J.C. A simple fluorescence-based cell viability assay for use in rat blood vessels *in vitro*. (D) 10*P*

KUSEL J.R. *see* EVANS C.A., GORDON J.F., HUTTER O.F. & KUSEL J.R. Lateral mobility of membrane glycoprotein in chick myotubes and in skeletal muscle fibres isolated from normal and MDX mice. (C) 54*P*

LAB Max J. *see* DEAN John W. & LAB Max J. Regional changes in ventricular excitability during load manipulation of the *in situ* pig heart. 387

LAKIE M. *see* ARBLASTER L.A., LAKIE M. & WALSH E.G. Human physiologial tremor: a bilateral study. (PC) 132*P*

LAM F.Y. *see* GRICE C.A., LAM F.Y. & FERRELL W.R. Response of knee joint blood vessels to neurokinin receptor agonists in anaesthetized rats. (C) 75*P*

LAMONT Christine *see* DANIELS Marcel C.G., TER KEURS Henk E.D.J. & LAMONT Christine Propagated contractions in selectively chemically skinned isolated rat cardiac muscle. (PC) 115*P*

LAU J.W.N. *see* CONWAY B.A., LAU J.W.N., MURRAY-SMITH D.J. & ROSENBERG J.R. Techniques for the analysis of neuronal interactions. (D) 5*P*

LAU K.R. & CASE R.M. Arachidonic acid with ionomycin can evoke an intracellular acidosis in isolated rabbit salivary gland acini. (C) 87*P*

LAW R.O. Effects of arginine-vasopressin (AVP) on steady-state cell volumes in slices of rat renal papilla incubated in hyperosmolal media. (C) 84*P*

LAYMAN D.B. *see* GOLDSMITH R., HAMPTON I.F.G., LAYMAN D.B. & LIGHT I.M. Changes in cardiorespiratory fitness in men on the International Biomedical Expedition to the Antarctic (IBEA). (PC) 104*P*

LEACH Richard M. *see* CHAPPELL Lucy C., LEACH Richard M. & TWORT Charles H.C. Differential vasorelaxant effects of BRL38227 in isolated large and small pulmonary vessels of the rat. (C) 74*P*

LEGENDRE Pascal & WESTBROOK Gary L. The inhibition of single *N*-methyl-D-aspartate-activated channels by zinc ions on cultured rat neurones. 429

LEIGH A.J. *see* BROWN C.H., GILMORE D.P., LEIGH A.J. & WILSON C.A. μ-, κ- and σ-opioid inhibition of the preovulatory luteinizing hormone surge in the rat. (C) 46*P*

LEIPER J.B. *see* BETHELL L.R., LEIPER J.B. & MAUGHAN R.J. Consumption of dilute glucose-electrolyte solutions improves exercise capacity in man. (C) 60*P*

LEIPER J.B. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

LENNARD R. & SINGH J. Measurement of cytosolic free magnesium concentrations in isolated rat pancreatic acinar cells using MAGFURA. (C) 91*P*

LESLIE G.C. & PART N.J. 'Driving' of muscle spindle secondary endings by ramp frequency stimulation of fusimotor fibres to the soleus muscle of the anaesthetized rat. (C) 33*P*

LEVIN R.J. *see* PRZYBORSKI S.A., LEVIN R.J. & YOUNG A. The locus of action of the M1 agonist McN-A-343 on rat jejunal and ileal secretion *in vitro*. (C) 96*P*

LIGHT I.M. *see* GOLDSMITH R., HAMPTON I.F.G., LAYMAN D.B. & LIGHT I.M. Changes in cardiorespiratory fitness in men on the International Biomedical Expedition to the Antarctic (IBEA). (PC) 104*P*

LINDSTRÖM Sivert & WRÓBEL Andrzej Private inhibitory systems for the X and Y pathways in the dorsal lateral geniculate nucleus of the cat. 259

LIPP P. & POTT L. Two compartments of Ca^{2+} release with different kinetics of loading in isolated guinea-pig atrial myocytes. (C) 18*P*

LIPP P. & POTT L. Inward currents caused by Ca^{2+} release from the sarcoplasmic reticulum of isolated cardiac myocytes are influenced by the Ca^{2+}-chelating properties of the internal solution. (PC) 118*P*

LORY P., RASSENDREN F.A., RICHARD S., TIAHO F. & NARGEOT J. Characterization of voltage-dependent calcium channels expressed in *Xenopus* oocytes injected with mRNA from rat heart. 95

LOVGREEN Brenda *see* CODY F.W.J., LOVGREEN Brenda, SCHADY W. & RICHARDSON Helen C. Proprioceptive control of human voluntary wrist movements studied in healthy subjects and in patients with cerebellar dysfunction. (C) 37*P*

LOWRIE M.B., SHAHANI U. & VRBOVÁ G. The effect of reducing the calcium concentration at the site of nerve injury on motoneurones and muscles of neonatal rats. (PC) 131*P*

LYNN B. & COTSELL B. The rate of spread of axon reflex flare in human skin following noxious heating. (PC) 101*P*

MCCAIG C.D. *see* DOVER P.J. & MCCAIG C.D. Forskolin induces processes with nerve-like galvanotropic properties in cultured, embryonic frog myoblasts. (C) 55*P*

MCCALL E., HARRISON S.M., BOYETT M.R. & ORCHARD C.H. Intracellular sodium activity (a^i_{Na}), intracellular pH (pH_i) and contractility in isolated rat ventricular myocytes during respiratory acidosis. (C) 17*P*

MCCLOSKEY D.I. *see* HORE J., MCCLOSKEY D.I. & TAYLOR Janet L. Task-dependent changes in gain of the reflex response to imperceptible perturbations of joint positon in man. 309

MCCOMAS A.J. *see* GARLAND S. Jayne & MCCOMAS A.J. Reflex inhibition of human soleus muscle during fatigue. 17

MCCROHAN C.R. *see* BROWN A.M. & MCCROHAN C.R. Extracellular Ca^{2+} suppresses a voltage-insensitive, cyclic AMP-stimulated inward Na^+ current in an identified neurone in the isolated CNS of *Lymnaea stagnalis*. (C) 65*P*

MCCROHAN C.R. *see* MILLS J.D., MCCROHAN C.R. & BAILEY S.E.R. Effect of the molluscicide, metaldehyde, on firing activity and ionic conductances in neurones of *Lymnaea stagnalis*. (PC) 123*P*

MACDONALD Robert L. *see* GROSS Robert A., UHLER Michael D. & MACDONALD Robert L. The cyclic AMP-dependent protein kinase catalytic subunit selectively enhances calcium currents in rat nodose neurones. 483

MACEFIELD Gary, GANDEVIA Simon C. & BURKE David Perceptual responses to microstimulation of single afferents innervating joints, muscles and skin of the human hand. 113

MCEWAN G.T.A. & SKADHAUGHE E. Neutralization of pig jejunal acid microclimate *in vivo* by *E. coli* STa toxin inhibited by antisecretory factor. (C) 97*P*

MCGARRY S.J., GILLESPIE J.S. & POLLOCK D. A method for investigating the effects of hyperbaric conditions on electrical field stimulation-induced overflow of ^3H in the rat isolated anococcygeus muscle, pre-incubated in [^{3}H]noradrenaline. (D) 7*P*

MCGRATH J.C. *see* GORDON J.F., DALY C.J., BOYLE F.C., KUSEL J.R., GILLESPIE J.S. & MCGRATH J.C. A simple fluorescence-based cell viability assay for use in rat blood vessels *in vitro*. (D) 10*P*

McGrath J.C. *see* Daly C.J., Gordon J., Boyle F.C., Gillespie J.S., McGrath J.C., Moss V.A. & Spurway N.C. Fluorescent myography: the analysis of isolated vascular smooth muscle cells of the rat, labelled with bisbenzimide, during vasoconstriction. (D) 11*P*

McGrath J.C. *see* Crichton C.A., Smith G.L., McGrath J.C. & Miller D.J. The effects of GTP and noradrenaline on Ca-activated force in isolated rat anococcygeus muscle and longitudinal muscle from guinea-pig portal vein after α-toxin treatment. (PC) 112*P*

McHale N.G. *see* Carl A., McHale N.G., Publicover N.G. & Sanders K.M. Participation of Ca^{2+}-activated K^+ channels in electrical activity of canine gastric smooth muscle. 205

MacLeod K.T. & Harding S.E. Effects of phorbol ester on intracellular pH, $[Ca^{2+}]$ and contractile responses of isolated rat cardiac myocytes. (C) 16*P*

MacLeod K.T. *see* Hall S.K., Fry C.H. & MacLeod K.T. The effect of extracellular Mg on the contraction of isolated ventricular myocardium from several mammalian species. (C) 23*P*

McNicholas C.M., Turnberg L.A. & Brown C.D.A. Sequential isolation of structurally intact villus tip and crypt units from rat duodenum. (C) 99*P*

McQueen D.S. *see* Birrell G.J., McQueen D.S. & Iggo A. Effects of cicaprost and PGE_2 on the responses of rat ankle joint sensory receptors to bradykinin *in vitro*. (C) 29*P*

Mahaut-Smith M.P. *see* Sage S.O., Mahaut-Smith M.P. & Rink T.J. ADP-Evoked changes in cytosolic sodium concentration in human platelets loaded with the fluorescent indicator, SBFI. (C) 85*P*

Mannion A.F., Jakeman P.M., Dunnett M., Harris R. & Willan P.L.T. The contribution of carnosine to skeletal muscle buffering in man. (C) 58*P*

Mannion A.F., Jakeman P.M. & Willan P.L.T. The measurement of skeletal muscle buffer value in man. (PC) 108*P*

Marchand A.R. *see* Barnes W.J.P. & Marchand A.R. Mechanical and electrical correlates of habituation in a crayfixh leg reflex. (PC) 126*P*

Marsden C.D. *see* Ferbert A., Priori A., Rothwell J.C., Colebatch J., Day B.L. & Marsden C.D. Trans-callosal effects on motor cortical excitability in man. (C) 38*P*

Marshall A. *see* Paul D.H., Marshall A. & O'Neill J. Responses of reticulo-spinal neurones to tectal stimulation in the trout (*Salmo trutta*). (PC) 127*P*

Mary D.A.S.G. *see* Vacca G., Drinkhill M.J., Cevese A., Patel P., Schena F. & Mary D.A.S.G. Urinary bladder distension reflexly decreases coronary blood flow in the anaesthetized dog. (C) 82*P*

Matsumura Kiyoshi & Simon Eckhart Locations and properties of angiotensin II-responsive neurones in the circumventricular region of the duck brain. 281

Matsumura Kiyoshi & Simon Eckhart Increase in basal firing rate and sensitivity to angiotensin II in subfornical organ neurones of ducks adapted to salt water. 297

Matsuura Hiroshi, Shattock Michael & Ward Jeremy P.T. Na^+ pump current of cardiac myocytes isolated from control and K^+-depleted rabbits. (C) 26*P*

Matthews P.B.C. & Phillips J.R. Effects of cooling human nerves on the perception of roughness. (C) 28*P*

Maughan R.J. *see* Bethell L.R., Leiper J.B. & Maughan R.J. Consumption of dilute glucose-electrolyte solutions improves exercise capacity in man. (C) 60*P*

Mawe Gary M. Intracellular recording from neurones of the guinea-pig gall-bladder. 323

Maxwell D.J. *see* Short A.D., Brown A.G. & Maxwell D.J. Afferent inhibition and facilitation of transmission through the spinocervical tract in the anaesthetized cat. 511

Mester P.A. *see* Mustafa M., Mester P.A., Thiemermann C., Hecker M. & Vane J.R. N^{ω}-nitro-L-arginine (NO_2ARg) and NO_2Arg-L-phenylalanine inhibit endothelium-dependent vasodilatations *in vitro* in rabbits and *in vivo* in the anaesthetized rat. (C) 72*P*

Metting Patricia J. *see* Koch Lauren Gerard, Britton Steven Loyal & Metting Patricia J. Adenosine is not essential for exercise hyperaemia in the hindlimb in conscious dogs. 63

Meyerhof Wolfgang *see* Bauer Christiane K., Meyerhof Wolfgang & Schwarz Jürgen R. An inward-rectifying K^+ current in clonal rat pituitary cells and its modulation by thyrotrophin-releasing hormone. 169

Mill J.G. *see* Donoso P., Mill J.G., O'Neill S.C. & Eisner D.A. Effect of metabolic blockade on intracellular sodium in isolated rat ventricular myocytes. (PC) 116*P*

Miller D.J. *see* Crichton C.A., Smith G.L., McGrath J.C. & Miller D.J. The effects of GTP and noradrenaline on Ca-activated force in isolated rat anococcygeus muscle and longitudinal muscle from guinea-pig portal vein after α-toxin treatment. (PC) 112*P*

Miller D.J. *see* Steele D.S., Smith G.L. & Miller D.J. The effects of calcium, caffeine and sulmazole on the development of rigor tension in Triton-treated isolated rat cardiac muscle. (PC) 113*P*

MILLS J.D., MCCROHAN C.R. & BAILEY S.E.R. Effect of the molluscicide, metaldehyde, on firing activity and ionic conductances in neurones of *Lymnaea stagnalis*. (PC) 123*P*

MITCHELL J.A., HECKER M., SESSA W.C., SWIERKOSZ T.A. & VANE J.R. L-Glutamine inhibits the generation of L-arginine and the release of endothelium-derived relaxing factor (EDRF) from bovine aortic cultured endothelial cells. (C) 73*P*

MIYAN J.A. Neural control of the immunocytotoxic destruction of dipteran eclosion muscles. (PC) 121*P*

MONTEAU R. *see* ERRCHIDI S., HILAIRE G. & MONTEAU R. Permanent release of noradrenaline modulates respiratory frequency in the newborn rat: an *in vitro* study. 497

MONTGOMERY I. *see* BOVELL D.L., HUTTER O.F. & MONTGOMERY I. Study of membrane vesiculation in murine skeletal muscle. (D) (TO) 12*P*

MOONGA Baljit S., Moss Donald W., PATCHELL Anne & ZAIDI Mone Intracellular regulation of enzyme secretion from rat osteoclasts and evidence for a functional role in bone resorption. 29

MORRIS G. *see* WILSON S.M., BOVELL D.L., ELDER H.Y., JENKINSON D. McEwan, COCKBURN F., COUTTS J. & MORRIS G. Cholinergic regulation of potassium ($^{86}Rb^+$) permeablity in sweat glands from patients with cystic fibrosis (CF). (PC) 102*P*

Moss Donald W. *see* MOONGA Baljit S., Moss Donald W., PATCHELL Anne & ZAIDI Mone Intracellular regulation of enzyme secretion from rat osteoclasts and evidence for a functional role in bone resorption. 29

Moss V.A. & WIGHT M. Image analysis on a Macintosh computer – an efficient method for measuring the response of smooth muscle in isolated rabbit blood vessels and gut. (D) 2*P*

MOSS V.A. *see* DALY C.J., GORDON J., BOYLE F.C., GILLESPIE J.S., MCGRATH J.C., MOSS V.A. & SPURWAY N.C. Fluorescent myography: the analysis of isolated vascular smooth muscle cells of the rat, labelled with bisbenzimide, during vasoconstriction. (D) 11*P*

MÜLLER T.H. *see* PARTRIDGE L.D., SWANDULLA D. & MÜLLER T.H. Modulation of calcium-activated non-specific cation currents by cyclic AMP-dependent phosphorylation in neurones of *Helix*. 131

MURRAY-SMITH D.J. *see* CONWAY B.A., LAU J.W.N., MURRAY-SMITH D.J. & ROSENBERG J.R. Techniques for the analysis of neuronal interactions. (D) 5*P*

MURROW B.W. *see* FUCHS P.A., EVANS M.G. & MURROW B.W. Calcium currents in hair cells isolated from the cochlea of the chick. 553

MUSTAFA M., MESTER P.A., THIEMERMANN C., HECKER M. & VANE J.R. N^{ω}-nitro-L-arginine (NO_2ARg) and NO_2Arg-L-phenylalanine inhibit endothelium-dependent vasodilatations *in vitro* in rabbits and *in vivo* in the anaesthetized rat. (C) 72*P*

NARGEOT J. *see* LORY P., RASSENDREN F.A., RICHARD S., TIAHO F. & NARGEOT J. Characterization of voltage-dependent calcium channels expressed in *Xenopus* oocytes injected with mRNA from rat heart. 95

NEIL D.M. *see* FOWLER W.S., NEIL D.M. & TOBASNICK G. The abdominal superficial flexor muscle: species differences between a lobster and a crayfish in the distribution of fibre phenotypes. (C) 69*P*

NEIL D.M. *see* CHRACHRI A., CONWAY B.A., NEIL D.M. & ROSENBERG J.R. Correlation analysis of coupling between crayfish motoneurones. (PC) 125*P*

NELSON Vivienne *see* CAMPBELL I.T. & NELSON Vivienne The effect of respiratory resistance on end-tidal position in man. (C) 62*P*

NICOL D.J. *see* ANDREWS B.J., BAXENDALE R.H., GRANAT M.H. & NICOL D.J. Flexion withdrawal reflexes in spinal cord-injured man. (C) 50*P*

NOBLE Ray, WILLIAMS Bridget A., HANSON Mark A. & SMITH Julie A. Transient, intense carotid chemoreceptor stimulation does not affect discharge of rostral pontine neurones found to be excited during hypoxia in anaesthetized newborn lambs. (C) 81*P*

NOEL J. & CAPIOD T. Activation of Ca^{2+}-dependent K^+ permeability by photolytic release of cAMP in guinea-pig isolated liver cells. (C) 94*P*

NORRSELL U. *see* BLOMQVIST A., DANIELSSON I. & NORRSELL U. The somatosensory intercollicular nucleus of the cat's mesencephalon. 191

O'CONNELL D.P. & HALL W.J. What mediates the contalateral renal response in the anaesthetized dog to unilateral renal artery infusion of prostaglandin E_2? (C) 83*P*

OKWANGA T.N. *see* JULU P.O.O., OKWANGA T.N. & KUNZEKWEGUTA W.S. Increased knee-jerk reflex latency (KRL) indicates a high risk of diabetic complications in man. (C) 53*P*

O'NEILL J. *see* PAUL D.H., MARSHALL A. & O'NEILL J. Responses of reticulo-spinal neurones to tectal stimulation in the trout (*Salmo trutta*). (PC) 127*P*

O'Neill S.C. & Eisner D.A. The effects of refilling of the sarcoplasmic reticulum with Ca on $[Ca^{2+}]_i$ in isolated rat ventricular myocytes. (C) 20P

O'Neill S.C. *see* Donoso P., Mill J.G., O'Neill S.C. & Eisner D.A. Effect of metabolic blockade on intracellular sodium in isolated rat ventricular myocytes. (PC) 116P

Orchard C.H. *see* McCall E., Harrison S.M., Boyett M.R. & Orchard C.H. Intracellular sodium activity (a^i_{Na}), intracellular pH (pH_i) and contractility in isolated rat ventricular myocytes during respiratory acidosis. (C) 17P

Orchard C.H. *see* Frampton J.E., Orchard C.H. & Boyett M.R. Caffeine-induced calcium release in myocytes isolated from the ventricles of rat hearts changes during inotropic interventions. (C) 19P

Padoin E. *see* Doni M.G., Alexandre A., Padoin E., Bertoncello S. & Deana R. Effect of sodium nitroprusside and cyclic GMP on human platelet aggregation and ATP secretion induced by protein kinase C activators. (C) 86P

Painter R. *see* Paterson D.J., Friedland J.S., Bascom D.A., Clement I.D., Cunningham D.A., Painter R. & Robbins P.A. Changes in arterial K^+ and ventilation during exercise in normal subjects and subjects with McArdle's syndrome. 339

Pamplin P. *see* Brown A.M. & Pamplin P. Carbamazepine inhibits epileptiform activity induced by pentylenetetrazol in an identified neurone of the snail *Lymnaea stagnalis*. (PC) 122P

Part N.J. *see* Leslie G.C. & Part N.J. 'Driving' of muscle spindle secondary endings by ramp frequency stimulation of fusimotor fibres to the soleus muscle of the anaesthetized rat. (C) 33P

Partridge L.D., Swandulla D. & Müller T.H. Modulation of calcium-activated non-specific cation currents by cyclic AMP-dependent phosphorylation in neurones of *Helix*. 131

Patchell Anne *see* Moonga Baljit S., Moss Donald W., Patchell Anne & Zaidi Mone Intracellular regulation of enzyme secretion from rat osteoclasts and evidence for a functional role in bone resorption. 29

Patel P. *see* Vacca G., Drinkhill M.J., Cevese A., Patel P., Schena F. & Mary D.A.S.G. Urinary bladder distension reflexly decreases coronary blood flow in the anaesthetized dog. (C) 82P

Paterson D.J., Friedland J.S., Bascom D.A., Clement I.D., Cunningham D.A., Painter R. & Robbins P.A. Changes in arterial K^+ and ventilation during exercise in normal subjects and subjects with McArdle's syndrome. 339

Paul D.H., Marshall A. & O'Neill J. Responses of reticulo-spinal neurones to tectal stimulation in the trout (*Salmo trutta*). (PC) 127P

Paul D.H. & Dean Jacqueline A. Differential projections from the brain to rostral and caudal levels of the spinal cord in the trout (*Salmo trutta*). (PC) 128P

Petersen O.H. *see* Dunne M.J., Tucker L.M. & Petersen O.H. Activators of protein kinase C have novel effects on ATP-sensitive potassium channels in insulin-secreting cells. (C) 93P

Phillips J.R. *see* Matthews P.B.C. & Phillips J.R. Effects of cooling human nerves on the perception of roughness. (C) 28P

Pitman R.M. *see* David J.A. & Pitman R.M. Functional muscarinic receptors on an identified neurone in the isolated metathoracic ganglion of the cockroach *Periplaneta americana*. (C) 66P

Pollock D. *see* McGarry S.J., Gillespie J.S. & Pollock D. A method for investigating the effects of hyperbaric conditions on electrical field stimulation-induced overflow of ^3H in the rat isolated anococcygeus muscle, pre-incubated in [^{3}H]noradrenaline. (D) 7P

Pollock D. *see* Dowell Fiona J., Aidulis Dorothy M., Sharifi A.M. & Pollock D. Increased sensitivity to noradrenaline and noradrenaline-induced phosphoinositide hydrolysis in the isolated tail artery from spontaneously hypertensive rats. (C) 76P

Pott L. *see* Lipp P. & Pott L. Two compartments of Ca^{2+} release with different kinetics of loading in isolated guinea-pig atrial myocytes. (C) 18P

Pott L. *see* Lipp P. & Pott L. Inward currents caused by Ca^{2+} release from the sarcoplasmic reticulum of isolated cardiac myocytes are influenced by the Ca^{2+}-chelating properties of the internal solution. (PC) 118P

Priori A. *see* Ferbert A., Priori A., Rothwell J.C., Colebatch J., Day B.L. & Marsden C.D. Trans-callosal effects on motor cortical excitability in man. (C) 38P

Prochazka A. *see* Elek J., Prochazka A., Hulliger M. & Vincent S. In-series compliance of gastrocnemius muscle in cat step cycle: do spindles signal origin-to-insertion length? 237

Proctor G.B., Chan K.M., Garrett J.R. & Smith R.E. Characterization of two proteinases possibly involved in the processing of atrial natriuretic peptide in bovine atrium. (C) 79P

PRZYBORSKI S.A., LEVIN R.J. & YOUNG A. The locus of action of the M1 agonist McN-A-343 on rat jejunal and ileal secretion *in vitro*. (C) 96*P*

PUBLICOVER N.G. *see* CARL A., MCHALE N.G., PUBLICOVER N.G. & SANDERS K.M. Participation of Ca^{2+}-activated K^+ channels in electrical activity of canine gastric smooth muscle. 205

PUCEAT Michel, CLEMENT Odile & VASSORT Guy Extracellular MgATP stimulates chloride–bicarbonate exchange in single rat cardiac ventricular cells. (C) 25*P*

PUSCH H. *see* GLITSCH H.G., PUSCH H. & TAPPE A. A new procedure to estimate the apparent K_D value for the interaction between cardiac glycosides and the Na–K pump of isolated sheep cardiac Purkinje fibres. (PC) 119*P*

RASSENDREN F.A. *see* LORY P., RASSENDREN F.A., RICHARD S., TIAHO F. & NARGEOT J. Characterization of voltage-dependent calcium channels expressed in *Xenopus* oocytes injected with mRNA from rat heart. 95

RAWLINGS J.M., BROWNBILL P., STEWARD M.C. & CASE R.M. Inhibitory effects of a phorbol ester on fluid secretion by the isolated, perfused rabbit mandibular salivary gland. (C) 88*P*

REED J.W. *see* ELLIOTT C. & REED J.W. The effects of inspiratory resistances on exercise capacity in man. (C) 63*P*

REHRER N.J. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

REMBOLD Christopher M. Modulation of the $[Ca^{2+}]$ sensitivity of myosin phosphorylation in intact swine arterial smooth muscle. 77

RICHARD S. *see* LORY P., RASSENDREN F.A., RICHARD S., TIAHO F. & NARGEOT J. Characterization of voltage-dependent calcium channels expressed in *Xenopus* oocytes injected with mRNA from rat heart. 95

RICHARDSON Helen C. *see* CODY F.W.J., LOVGREEN Brenda, SCHADY W. & RICHARDSON Helen C. Proprioceptive control of human voluntary wrist movements studied in healthy subjects and in patients with cerebellar dysfunction. (C) 37*P*

RIND F. Claire & SIMMONS Peter J. Neurones in the locust visual system which encode acceleration and are directionally selective for motion in depth. (C) 71*P*

RIND F. Claire Functional significance of the receptive field organization of an identified visual interneurone in the locust. Looming detector? (PC) 124*P*

RINK T.J. *see* SAGE S.O., MAHAUT-SMITH M.P. & RINK T.J. ADP-Evoked changes in cytosolic sodium concentration in human platelets loaded with the fluorescent indicator, SBFI. (C) 85*P*

ROBBINS P.A. *see* PATERSON D.J., FRIEDLAND J.S., BASCOM D.A., CLEMENT I.D., CUNNINGHAM D.A., PAINTER R. & ROBBINS P.A. Changes in arterial K^+ and ventilation during exercise in normal subjects and subjects with McArdle's syndrome. 339

RODGERS J. *see* TAYLOR A., DURBABA R. & RODGERS J. The relative strength of monosynaptic projections of jaw muscle spindle afferents of different types in the anaesthetized cat. (C) 30*P*

ROSENBERG J.R. *see* CONWAY B.A., LAU J.W.N., MURRAY-SMITH D.J. & ROSENBERG J.R. Techniques for the analysis of neuronal interactions. (D) 5*P*

ROSENBERG J.R. *see* DAVEY N.J., ELLAWAY P.H., HALLIDAY D.M. & ROSENBERG J.R. Association between the discharges of γ-motoneurones during cutaneous stimulation revealed by coherence analysis in the cat. (C) 35*P*

ROSENBERG J.R. *see* CHRACHRI A., CONWAY B.A., NEIL D.M. & ROSENBERG J.R. Correlation analysis of coupling between crayfish motoneurones. (PC) 125*P*

ROTHWELL J.C. *see* FERBERT A., PRIORI A., ROTHWELL J.C., COLEBATCH J., DAY B.L. & MARSDEN C.D. Trans-callosal effects on motor cortical excitability in man. (C) 38*P*

ROUSE M.E. & BAXENDALE R.H. A technique to record the sounds emitted from triceps brachii in man during voluntary contractions. (D) 8*P*

ROWLERSON Anthea *see* ANTONIOU A., SHAFI A.I. & ROWLERSON Anthea Soleus muscle fibre and spindle development in Swiss White and C3H Brown Mice. (C) 32*P*

ROWLERSON Anthea *see* SHAFI A.I., ANTONIOU A. & ROWLERSON Anthea Muscle spindles and type I (slow-twitch) fibres in the soleus muscle of C3H Brown and Swiss White Mice. (PC) 133*P*

SAGE S.O., MAHAUT-SMITH M.P. & RINK T.J. ADP-Evoked changes in cytosolic sodium concentration in human platelets loaded with the fluorescent indicator, SBFI. (C) 85*P*

SANDERS Kenton M. *see* VOGALIS Fivos & SANDERS Kenton M. Cholinergic stimulation activates a non-selective cation current in canine pyloric circular muscle cells. 223

SANDERS K.M. *see* CARL A., MCHALE N.G., PUBLICOVER N.G. & SANDERS K.M. Participation of Ca^{2+}-activated K^+ channels in electrical activity of canine gastric smooth muscle. 205

SARGEANT A.J. *see* BEELEN A. & SARGEANT A.J. Velocity-dependent effect of muscle fatigue generated by dynamic exercise in humans. (C) 56*P*

SARGEANT A.J. Maximal short-term power output in humans. (C) 57*P*

SARIS W.H.M. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

SCHADY W. *see* CODY F.W.J., LOVGREEN Brenda, SCHADY W. & RICHARDSON Helen C. Proprioceptive control of human voluntary wrist movements studied in healthy subjects and in patients with cerebellar dysfunction. (C) 37*P*

SCHENA F. *see* VACCA G., DRINKHILL M.J., CEVESE A., PATEL P., SCHENA F. & MARY D.A.S.G. Urinary bladder distension reflexly decreases coronary blood flow in the anaesthetized dog. (C) 82*P*

SCHMID K., KIRKWOOD P.A. & SEARS T.A. Variation in the form and location of focal synaptic potentials generated in the anaesthetized cat by individual thoracic respiratory interneurones with differing firing patterns. (C) 42*P*

SCHNEIDER S.P. & FYFFE R.E.W. Bicuculline and strychnine depress recurrent inhibitory postsynaptic potentials in motoneurones in the isolated spinal cord of the rat. (C) 43*P*

SCHWARZ Jürgen R. *see* BAUER Christiane K., MEYERHOF Wolfgang & SCHWARZ Jürgen R. An inward-rectifying K^+ current in clonal rat pituitary cells and its modulation by thyrotrophin-releasing hormone. 169

SEARS T.A. *see* SCHMID K., KIRKWOOD P.A. & SEARS T.A. Variation in the form and location of focal synaptic potentials generated in the anaesthetized cat by individual thoracic respiratory interneurones with differing firing patterns. (C) 42*P*

SEDDON P.C. *see* ARMSTRONG D.J., SEDDON P.C. & WORSLEY M.D. Phenylbiguanide (PBG) does not decrease airway conductance in spontaneously breathing, pentobarbitone-anaesthetized rabbits. (C) 64*P*

SESSA W,.C. *see* MITCHELL J.A., HECKER M., SESSA W.C., SWIERKOSZ T.A. & VANE J.R. L-Glutamine inhibits the generation of L-arginine and the release of endothelium-derived relaxing factor (EDRF) from bovine aortic cultured endothelial cells. (C) 73*P*

SHAFI A.I. *see* ANTONIOU A., SHAFI A.I. & ROWLERSON Anthea Soleus muscle fibre and spindle development in Swiss White and C3H Brown Mice. (C) 32*P*

SHAFI A.I., ANTONIOU A. & ROWLERSON Anthea Muscle spindles and type I (slow-twitch) fibres in the soleus muscle of C3H Brown and Swiss White Mice. (PC) 133*P*

SHAHANI U. *see* LOWRIE M.B., SHAHANI U. & VRBOVÁ G. The effect of reducing the calcium concentration at the site of nerve injury on motoneurones and muscles of neonatal rats. (PC) 131*P*

SHARIFI A.M. *see* DOWELL Fiona J., AIDULIS Dorothy M., SHARIFI A.M. & POLLOCK D. Increased sensitivity to noradrenaline and noradrenaline-induced phosphoinositide hydrolysis in the isolated tail artery from spontaneously hypertensive rats. (C) 76*P*

SHATTOCK Michael *see* MATSUURA Hiroshi, SHATTOCK Michael & WARD Jeremy P.T. Na^+ pump current of cardiac myocytes isolated from control and K^+-depleted rabbits. (C) 26*P*

SHORT A.D., BROWN A.G. & MAXWELL D.J. Afferent inhibition and facilitation of transmission through the spinocervical tract in the anaesthetized cat. 511

SILLAR K.T. & WEDDERBURN J.F.S. The postembryonic development of locomotor rhythmicity in the spinal cord of immobilized *Xenopus laevis* tadpoles. (C) 68*P*

SILLITO A.M. *see* GRIEVE K.L. & SILLITO A.M. The role of feedback from layer VI to IV in the generation of length tuning in the visual cortex of the anaesthetized cat. (C) 48*P*

SIMMONS Peter J. *see* RIND F. Claire & SIMMONS Peter J. Neurones in the locust visual system which encode acceleration and are directionally selective for motion in depth. (C) 71*P*

SIMON Eckhart *see* MATSUMURA Kiyoshi & SIMON Eckhart Locations and properties of angiotensin II-responsive neurones in the circumventricular region of the duck brain. 281

SIMON Eckhart *see* MATSUMURA Kiyoshi & SIMON Eckhart Increase in basal firing rate and sensitivity to angiotensin II in subfornical organ neurones of ducks adapted to salt water. 297

SINGH J. *see* LENNARD R. & SINGH J. Measurement of cytosolic free magnesium concentrations in isolated rat pancreatic acinar cells using MAGFURA. (C) 91*P*

SKADHAUGHE E. *see* MCEWAN G.T.A. & SKADHAUGHE E. Neutralization of pig jejunal acid microclimate *in vivo* by *E. coli* STa toxin inhibited by antisecretory factor. (C) 97*P*

SMITH F.W. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

SMITH G.L. *see* CRICHTON C.A., SMITH G.L., MCGRATH J.C. & MILLER D.J. The effects of GTP and noradrenaline on Ca-activated force in isolated rat anococcygeus muscle and longitudinal muscle from guinea-pig portal vein after α-toxin treatment. (PC) 112*P*

SMITH G.L. *see* STEELE D.S., SMITH G.L. & MILLER D.J. The effects of calcium, caffeine and sulmazole on the development of rigor tension in Triton-treated isolated rat cardiac muscle. (PC) 113*P*

SMITH Julie A. *see* NOBLE Ray, WILLIAMS Bridget A., HANSON Mark A. & SMITH Julie A. Transient, intense carotid chemoreceptor stimulation does not affect discharge of rostral pontine neurones found to be excited during hypoxia in anaesthetized newborn lambs. (C) 81*P*

SMITH R.E. *see* PROCTOR G.B., CHAN K.M., GARRETT J.R. & SMITH R.E. Characterization of two proteinases possibly involved in the processing of atrial natriuretic peptide in bovine atrium. (C) 79*P*

SOMLYO A.P. *see* SOMLYO A.V., HORIUTI K., KITAZAWA T., TRENTHAM D.R. & SOMLYO A.P. Kinetics of $InsP_3$-induced Ca^{2+} release in smooth muscle isolated from guinea-pig portal vein. (C) 14*P*

SOMLYO A.V., HORIUTI K., KITAZAWA T., TRENTHAM D.R. & SOMLYO A.P. Kinetics of $InsP_3$-induced Ca^{2+} release in smooth muscle isolated from guinea-pig portal vein. (C) 14*P*

SPURWAY N.C. *see* DALY C.J., GORDON J., BOYLE F.C., GILLESPIE J.S., MCGRATH J.C., MOSS V.A. & SPURWAY N.C. Fluorescent myography: the analysis of isolated vascular smooth muscle cells of the rat, labelled with bisbenzimide, during vasoconstriction. (D) 11*P*

STACEY M.J. *see* BANKS R.W. & STACEY M.J. A quantitative analysis of the sensory innervation of cat tenuissimus muscle spindles. (PC) 129*P*

STARK A.D. & JENNETT Sheila Hypoxia, hypocapnia and muscle fatigue during voluntary contractions in man. (PC) 100*P*

STEELE D.S., SMITH G.L. & MILLER D.J. The effects of calcium, caffeine and sulmazole on the development of rigor tension in Triton-treated isolated rat cardiac muscle. (PC) 113*P*

STEPHENS J.A. *see* FARMER S.F., HARRISON L.M., INGRAM D.A. & STEPHENS J.A. Evidence for plasticity of central motor pathways in children with hemiplegic cerebral palsy. (C) 40*P*

STEPHENS J.A. *see* VENNING S., ENGERT D., EVANS H., FARMER S.F. & STEPHENS J.A. Time and frequency-domain analysis of motor unit firing in first dorsal interosseous muscle and biceps studied in man. (C) 41*P*

STEWARD M.C. *see* RAWLINGS J.M., BROWNBILL P., STEWARD M.C. & CASE R.M. Inhibitory effects of a phorbol ester on fluid secretion by the isolated, perfused rabbit mandibular salivary gland. (C) 88*P*

SWANDULLA D. *see* PARTRIDGE L.D., SWANDULLA D. & MÜLLER T.H. Modulation of calcium-activated non-specific cation currents by cyclic AMP-dependent phosphorylation in neurones of *Helix*. 131

SWIERKOSZ T.A. *see* MITCHELL J.A., HECKER M., SESSA W.C., SWIERKOSZ T.A. & VANE J.R. L-Glutamine inhibits the generation of L-arginine and the release of endothelium-derived relaxing factor (EDRF) from bovine aortic cultured endothelial cells. (C) 73*P*

TAPPE A. *see* GLITSCH H.G., PUSCH H. & TAPPE A. A new procedure to estimate the apparent K_D value for the interaction between cardiac glycosides and the Na–K pump of isolated sheep cardiac Purkinje fibres. (PC) 119*P*

TAUC L. *see* BAUX G., FOSSIER P. & TAUC L. Histamine and FLRFamide regulate acetylcholine release at an identified synapse in *Aplysia* in opposite ways. 147

TAYLOR A., DURBABA R. & RODGERS J. The relative strength of monosynaptic projections of jaw muscle spindle afferents of different types in the anaesthetized cat. (C) 30*P*

TAYLOR Janet L. *see* HORE J., MCCLOSKEY D.I. & TAYLOR Janet L. Task-dependent changes in gain of the reflex response to imperceptible perturbations of joint positon in man. 309

TEN HOOR F. *see* BECKERS E.J., LEIPER J.B., DAVIDSON J., GEMMELL H.G., SMITH F.W., REHRER N.J., BROUNS F., SARIS W.H.M. & TEN HOOR F. A comparison of aspiration and scintigraphic techniques for measurement of gastric emptying rates of liquids in man. (PC) 107*P*

TER KEURS Henk E.D.J. *see* DANIELS Marcel C.G., TER KEURS Henk E.D.J. & LAMONT Christine Propagated contractions in selectively chemically skinned isolated rat cardiac muscle. (PC) 115*P*

TERRAR D.A. *see* CONNORS S.P. & TERRAR D.A. The effect of forskolin on activation and de-activation of time-dependent potassium current in ventricular cells isolated from guinea-pig heart. (PC) 109*P*

THIEMERMANN C. *see* MUSTAFA M., MESTER P.A., THIEMERMANN C., HECKER M. & VANE J.R. N^{ω}-nitro-L-arginine (NO_2ARg) and NO_2Arg-L-phenylalanine inhibit endothelium-dependent vasodilatations *in vitro* in rabbits and *in vivo* in the anaesthetized rat. (C) 72*P*

TIAHO F. *see* LORY P., RASSENDREN F.A., RICHARD S., TIAHO F. & NARGEOT J. Characterization of voltage-dependent calcium channels expressed in *Xenopus* oocytes injected with mRNA from rat heart. 95

TIAN L.J. *see* BOVELL D.L., BURTON F.L., HUTTER O.F. & TIAN L.J. Effects of decreased internal pH on inwardly rectifying K channels in guinea-pig ventricular cell membrane. (PC) 111*P*

TIVEY D.R. & DAUNCEY M.J. Reduced α-glucosidase expression by enterocytes from small-for-gestational age piglets. (C) 98*P*

TOBASNICK G. *see* FOWLER W.S., NEIL D.M. & TOBASNICK G. The abdominal superficial flexor muscle: species differences between a lobster and a crayfish in the distribution of fibre phenotypes. (C) 69*P*

TRENTHAM D.R. *see* SOMLYO A.V., HORIUTI K., KITAZAWA T., TRENTHAM D.R. & SOMLYO A.P. Kinetics of $InsP_3$-induced Ca^{2+} release in smooth muscle isolated from guinea-pig portal vein. (C) 14*P*

TUCKER L.M. *see* DUNNE M.J., TUCKER L.M. & PETERSEN O.H. Activators of protein kinase C have novel effects on ATP-sensitive potassium channels in insulin-secreting cells. (C) 93*P*

TURNBERG L.A. *see* MCNICHOLAS C.M., TURNBERG L.A. & BROWN C.D.A. Sequential isolation of structurally intact villus tip and crypt units from rat duodenum. (C) 99*P*

TWORT Charles H.C. *see* CHAPPELL Lucy C., LEACH Richard M. & TWORT Charles H.C. Differential vasorelaxant effects of BRL38227 in isolated large and small pulmonary vessels of the rat. (C) 74*P*

UHLER Michael D. *see* GROSS Robert A., UHLER Michael D. & MACDONALD Robert L. The cyclic AMP-dependent protein kinase catalytic subunit selectively enhances calcium currents in rat nodose neurones. 483

VACCA G., DRINKHILL M.J., CEVESE A., PATEL P., SCHENA F. & MARY D.A.S.G. Urinary bladder distension reflexly decreases coronary blood flow in the anaesthetized dog. (C) 82*P*

VANE J.R. *see* MUSTAFA M., MESTER P.A., THIEMERMANN C., HECKER M. & VANE J.R. N^{ω}-nitro-L-arginine (NO_2ARg) and NO_2Arg-L-phenylalanine inhibit endothelium-dependent vasodilatations *in vitro* in rabbits and *in vivo* in the anaesthetized rat. (C) 72*P*

VANE J.R. *see* MITCHELL J.A., HECKER M., SESSA W.C., SWIERKOSZ T.A. & VANE J.R. L-Glutamine inhibits the generation of L-arginine and the release of endothelium-derived relaxing factor (EDRF) from bovine aortic cultured endothelial cells. (C) 73*P*

VANHEEL B. & DE HEMPTINNE A. Effects of acidosis on extracellular K^+ accumulation and surface pH in isolated ischaemic guinea-pig papillary muscle. (PC) 110*P*

VASSORT Guy *see* PUCEAT Michel, CLEMENT Odile & VASSORT Guy Extracellular MgATP stimulates chloride–bicarbonate exchange in single rat cardiac ventricular cells. (C) 25*P*

VENNING S., ENGERT D., EVANS H., FARMER S.F. & STEPHENS J.A. Time and frequency-domain analysis of motor unit firing in first dorsal interosseous muscle and biceps studied in man. (C) 41*P*

VINCENT S. *see* ELEK J., PROCHAZKA A., HULLIGER M. & VINCENT S. In-series compliance of gastrocnemius muscle in cat step cycle: do spindles signal origin-to-insertion length? 237

VOGALIS Fivos & SANDERS Kenton M. Cholinergic stimulation activates a non-selective cation current in canine pyloric circular muscle cells. 223

VRBOVÁ G. *see* LOWRIE M.B., SHAHANI U. & VRBOVÁ G. The effect of reducing the calcium concentration at the site of nerve injury on motoneurones and muscles of neonatal rats. (PC) 131*P*

WALSH E.G., BROWN K. & WRIGHT G.W. Resonant frequency of the human ankle in juvenile hemiplegia. (C) 31*P*

WALSH E.G. *see* ARBLASTER L.A., LAKIE M. & WALSH E.G. Human physiologial tremor: a bilateral study. (PC) 132*P*

WARD Jeremy P.T. *see* MATSUURA Hiroshi, SHATTOCK Michael & WARD Jeremy P.T. Na^+ pump current of cardiac myocytes isolated from control and K^+-depleted rabbits. (C) 26*P*

WARD Jeremy P.T. *see* WARLEY Alice & WARD Jeremy P.T. X-ray microanalysis of cardiac myocytes isolated from K^+-depleted rabbits. (PC) 117*P*

WARLEY Alice & WARD Jeremy P.T. X-ray microanalysis of cardiac myocytes isolated from K^+-depleted rabbits. (PC) 117*P*

WEDDERBURN J.F.S. *see* SILLAR K.T. & WEDDERBURN J.F.S. The postembryonic development of locomotor rhythmicity in the spinal cord of immobilized *Xenopus laevis* tadpoles. (C) 68*P*

WEIR A.I. *see* HANSEN S., WEIR A.I. & BALLANTYNE J.P. Improved method for estimation of motor unit numbers and analysis of motor unit potential parameters in extensor digitorum brevis muscle in man. (D) 6*P*

WEIR A.I., KIOY P., HANSEN S. & JAMAL G.A. Muscle fibre conduction velocity in the post-viral fatigue syndrome in man. (C) 51*P*

WENDT-GALLITELLI Maria Fiora & ISENBERG Gerrit Time course of myofibrillar calcium during the cardiac cycle. X-Ray microprobe analysis of voltage-clamped guinea-pig ventricular myocytes. (C) 15*P*

WESTBROOK Gary L. *see* LEGENDRE Pascal & WESTBROOK Gary L. The inhibition of single *N*-methyl-D-aspartate-activated channels by zinc ions on cultured rat neurones. 429

WHITAKER E.M. *see* AL-OBAIDI M., WHITAKER E.M. & KARIM F. Carotid chemoreceptors and plasma atrial natriuretic peptide in anaesthetized dogs. (C) 80*P*

WHITE M.J. & HARRIDGE S.D.R. At high angular velocities voluntary activation limits maximal isokinetic torque generation in elderly and young human triceps surae. (C) 52*P*

WIGHT M. *see* MOSS V.A. & WIGHT M. Image analysis on a Macintosh computer – an efficient method for measuring the response of smooth muscle in isolated rabbit blood vessels and gut. (D) 2*P*

WILLAN P.L.T. *see* MANNION A.F., JAKEMAN P.M. & WILLAN P.L.T. The measurement of skeletal muscle buffer value in man. (PC) 108*P*

WILLIAMS Bridget A. *see* NOBLE Ray, WILLIAMS Bridget A., HANSON Mark A. & SMITH Julie A. Transient, intense carotid chemoreceptor stimulation does not affect discharge of rostral pontine neurones found to be excited during hypoxia in anaesthetized newborn lambs. (C) 81*P*

WILLIAN P.L.T. *see* MANNION A.F., JAKEMAN P.M., DUNNETT M., HARRIS R. & WILLIAN P.L.T. The contribution of carnosine to skeletal muscle buffering in man. (C) 58*P*

WILSON C.A. *see* BROWN C.H., GILMORE D.P., LEIGH A.J. & WILSON C.A. μ-, κ- and σ-opioid inhibition of the preovulatory luteinizing hormone surge in the rat. (C) 46*P*

WILSON S.M., BOVELL D.L., ELDER H.Y., JENKINSON D. McEwan, COCKBURN F., COUTTS J. & MORRIS G. Cholinergic regulation of potassium ($^{86}Rb^+$) permeablity in sweat glands from patients with cystic fibrosis (CF). (PC) 102*P*

WINPENNY J.P., ELLIOTT J.R. & HARPER A.A. Effects of some *n*-alkanols on the transient potassium current (I_A) in isolated *Helix* neurones. (C) 44*P*

WINTER E.M. & BROOKES F.B.C. Electromechanical response times and muscle elasticity. (PC) 106*P*

WORSLEY M.D. *see* ARMSTRONG D.J., SEDDON P.C. & WORSLEY M.D. Phenylbiguanide (PBG) does not decrease airway conductance in spontaneously breathing, pentobarbitone-anaesthetized rabbits. (C) 64*P*

WRIGHT G.W. *see* WALSH E.G., BROWN K. & WRIGHT G.W. Resonant frequency of the human ankle in juvenile hemiplegia. (C) 31*P*

WRÓBEL Andrzej *see* LINDSTRÖM Sivert & WRÓBEL Andrzej Private inhibitory systems for the X and Y pathways in the dorsal lateral geniculate nucleus of the cat. 259

WYLLIE D.J.A. & CULL-CANDY S.G. Glutamate receptor channels in rat cultured type-2 cerebellar astrocytes resemble neuronal type glutamate channels. (C) 45*P*

YAU K.-W. *see* HAYNES L.W. & YAU K.-W. Single-channel measurement from the cyclic GMP-activated conductance of catfish retinal cones. 451

YOUNG A. *see* DETTMAR P.W., GOSLING M., IBRAHIM J. & YOUNG A. A comparison of the effects of μ-, δ- and κ-opioid agonists on ileal fluid transport in the anaesthetized rat. (C) 95*P*

YOUNG A. *see* PRZYBORSKI S.A., LEVIN R.J. & YOUNG A. The locus of action of the M1 agonist McN-A-343 on rat jejunal and ileal secretion *in vitro*. (C) 96*P*

ZAIDI Mone *see* MOONGA Baljit S., MOSS Donald W., PATCHELL Anne & ZAIDI Mone Intracellular regulation of enzyme secretion from rat osteoclasts and evidence for a functional role in bone resorption. 29